

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DK

Model: DKJ-7 X

Technical data

Nominal motor power [kW]:

Cylinder count: 2

Displacement [m³/h]: 5,13

Cylinder capacity [cm³]:

RPM [min⁻¹]: 1450

Weight [kg]: 41

Oil charge [dm³]: 0,6

Power supply [V/~/Hz]:

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	15	5/8"
Discharge line:	12	1/2"

R134a

Cooling capacity [W]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5
30	1 140	1 470	1 870	2 350	2 900	3 540	3 820	4 270	4 680
35	1 040	1 350	1 730	2 170	2 690	3 300	3 560	3 990	4 380
40	940	1 240	1 590	2 000	2 490	3 060	3 310	3 710	4 070
45	840	1 120	1 450	1 830	2 290	2 820	3 050	3 430	3 770
50	750	1 010	1 310	1 670	2 090	2 580	2 790	3 140	3 460
55	650	900	1 180	1 510	1 890	2 340	2 540	2 860	3 150
60	560	790	1 050	1 340	1 690	2 100	2 280	2 570	-
62	520	740	990	1 280	1 620	2 010	2 180	2 460	-

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	7	10	12.5
30	0.53	0.58	0.61	0.64	0.66	0.66	0.66	0.66	0.65
35	0.55	0.61	0.65	0.69	0.73	0.75	0.76	0.76	0.77
40	0.57	0.63	0.69	0.75	0.80	0.84	0.85	0.87	0.88
45	0.59	0.66	0.73	0.80	0.86	0.92	0.94	0.97	1.00
50	0.60	0.68	0.76	0.85	0.93	1.00	1.03	1.07	1.11
55	0.62	0.70	0.80	0.89	0.99	1.08	1.12	1.17	1.22
60	0.63	0.72	0.83	0.93	1.05	1.16	1.20	1.27	-
62	0.63	0.73	0.84	0.95	1.07	1.19	1.24	1.31	-

Operating conditions: suction gas temperature 25°C + additional cooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R404A/R507

Cooling capacity [W]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20
20	450	660	920	1 230	1 600	2 030	2 530
25	390	590	830	1 120	1 470	1 870	2 350
30	330	510	740	1 010	1 340	1 720	2 170
35	-	440	650	900	1 210	1 560	1 980
40	-	370	560	800	1 080	1 410	1 800
45	-	300	480	690	950	1 250	1 610
50	-	-	400	590	820	1 100	1 430
55	-	-	320	490	700	950	1 240

Power input [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20
20	0.62	0.65	0.69	0.72	0.75	0.78	0.79
25	0.57	0.62	0.67	0.72	0.77	0.81	0.85
30	0.51	0.58	0.65	0.72	0.78	0.85	0.90
35	-	0.54	0.62	0.71	0.79	0.87	0.95
40	-	0.49	0.59	0.69	0.79	0.89	0.99
45	-	0.44	0.56	0.67	0.79	0.91	1.02
50	-	-	0.52	0.65	0.79	0.92	1.05
55	-	-	0.47	0.62	0.77	0.93	1.07

Operating conditions: suction gas temperature 25°C + additional cooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



